

Please type a plus sign (+) inside this box →

PTO/SB/08A (08-00)

Approved for use through 10/31/2002
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Complete if Known	
	Application Number		10/774,276
	Filing Date		February 6, 2004
	First Named Inventor		David W. Farchmin
	Group Art Unit		2113
	Examiner Name		Robert W. Beausoliel, Jr.
	Attorney Docket Number		110003.00025 (03AB048)
Sheet	1	of	1

U.S. PATENT DOCUMENTS						
Examiner Initials ¹	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
RP	1	5,825,759		Liu	10/20/1998	
	2	4,518,958		Cook et al	05/21/1985	
	3	6,157,368		Fager	12/05/2000	
	4	4309600		Perry, et al.	01/05/1982	
	5	5121331		Lovrenich	06/09/1992	
	6	5347463		Nakamura	09/13/1994	
	7	5432702		Barnett	07/11/1995	
	8	6453210		Belotserkovskiy, et al.	09/17/2002	
	9	6600476		Mathis, et al.	07/29/2003	
	10	6839604		Godfrey, et al.	01/04/2005	
	11	2003/0013456		Bates, et al.	01/16/2003	
	12	2003/0234741		Rogers, et al.	12/25/2003	
	13	2003/0061295		Oberg, et al.	03/27/2003	
	14	2003/0023882		Udom	01/30/2003	
	15	2005/0078297		Doemens, et al.	04/14/2005	
	16	2004/023895		Balasuriya	10/14/2004	
	17	2005/0021158		De Meyer, et al.	01/27/2005	
	18	2004/0235468		Luebke, et al.	11/25/2004	
✓	19	2004/0192342		Ranganathan	09/30/2004	
	20	2005/0096776		Beaulieu, et al.	05/05/2005	

FOREIGN PATENT DOCUMENTS								
Examiner Initials ¹	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ³
		Office ³	Number ⁴	Kind Code ⁵ (if known)				
RP	1		EP 1 138 451 A2		Matsushita Electric	04.10.2001		
↓	2		EP 1 058 171 A2		Fanuc LTD	06.12.2000		
	3		EP 1 209 930 A2		DaimlerChrysler AG	29.05.2002		
	4		WO 98/30045		Siemens Business	09.07.1998		
↓	5		GB 2 372 365		Fisher-Rosenmount	21.08.2002		
	6		DE 44 42 443 A1		Dikeoulis, Vassilios	5.6.96		

Examiner Signature	/Ramesh Patel/	Date Considered	08/21/2006
-----------------------	----------------	--------------------	------------

¹EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

² Unique citation designation number. ³ See attached Kinds of U.S. Patent Documents. ⁴ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁵ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁶ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁷ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U. S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Complete if Known

Application Number	10/774,276
Filing Date	February 6, 2004
First Named Inventor	David W. Farchmin
Group Art Unit	2113
Examiner Name	Robert W. Beausoliel, Jr.
Attorney Docket Number	110003.00025 (03AB048)

Sheet 1 of 1

U.S. PATENT DOCUMENTS

[illegible]

FOREIGN PATENT DOCUMENTS

[illegible]

**Examiner
Signature**

/Ramesh Patel/

Date Considered

08/21/2006

***EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U. S. Patent and Trademark Office, Washington, DC 20231.

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Complete if Known

(use as many sheets as necessary)

Sheet 1 of 1

Application Number	10/774,276
Filing Date	February 6, 2004
First Named Inventor	David W. Farchmin
Group Art Unit	2113
Examiner Name	Robert Beausoliel
Attorney Docket Number	110003.00025 (03AB048)



U.S. PATENT DOCUMENTS						
Examiner Initials ¹	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
RP		3,812,947		Nygaard	05/28/1974	
		4,742,470		Juengel	05/03/1988	
		5,119,401		Tsujimoto	06/02/1992	
		5,121,331		Lovrenich	06/09/1992	
		5,347,463		Nakamura	09/13/1994	
		5,689,094		Friedli, et al.	11/18/1997	
		5,956,465		Takagi, et al.	09/21/1999	
		6,418,352		Ellis, et al.	07/09/2002	
		6,507,762		Amro, et al.	01/14/2003	
		6,516,239		Madden, et al.	02/04/2003	
		6,546,304		Thorvaldsson, et al.	04/08/2003	
		6,615,094		Gleis	09/02/2003	
		6,694,211		Hosel	02/17/2004	
		6,957,073		Bye	10/18/2005	
		US2001/0005178		Stewart	06/28/2001	
		US2003/0191767		Kabala	10/09/2003	
		US2005/0021158		De Meyer, et al.	01/27/2005	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Office ³	Number ⁴			
RP		WO	95/14938	Murdoch, et al.	06/01/1995	
		WO	99/28797	Horn, et al.	06/10/1999	
		WO	01/388797	Hofer, et al.	05/31/2001	
		DE	3832375 A1	Ormanns, et al.	03/29/1990	
		DE	20010529 U1	Aesculap AG & Co.	11/09/2000	
		DE	19955646 A1	Hofer, et al.	06/13/2001	
		GB	2 274 521	Mori, et al.	07/27/1994	

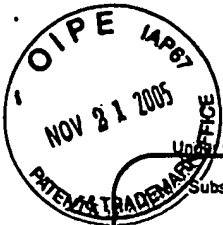
/Ramesh Patel/

08/21/2006

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U. S. Patent and Trademark Office, Washington, DC 20231.

5847326.1



PTO/SB/08a (07-05)
Approved for use through 07/31/2008. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 1 of 1

Complete if Known

Application Number	10/447,276 10774276
Filing Date	02-06-2004
First Named Inventor	David W. Farchmin
Art Unit	
Examiner Name	
Attorney Docket Number	110003.00025

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
RP ↓	1	US-2002/0131446	09-19-02	Metcalfe, III	
	2	US-5,978,753	11-02-99	Eidson	
	3	US-5,598,572	01-28-97	Tanikoshi et al	
	4	US-5,519,878	05-21-96	Dolin Jr.	
	5	US-6,574,549	06-2003	Cato et al	
	6	US-6,813,608	11-2004	Baranowski, Robert	
	7	US-2002/0183979	12-2002	Wildman, Timothy	
	8	US-2005/0035862	02-2005	Wildman, et al	
↓		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ³
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
RP ↓	1	WO 02/05107 A1	17.Jan.2002	Swales, Andrew		
	2	EP 1 265 118 A1	05.Jun.2001	Wimmer, Wolfgang		
	3	EP 1 233 315 A1	19.Feb.2001	Wimmer, Wolfgang		
	4	EP 0 472 874 A1	15.Jul.1991	Mathias, Thomas et al		
	5	WO 02/30053	11.Apr.2002	Lessuire		

Examiner Signature	/Ramesh Patel/	Date Considered	08/21/2006
--------------------	----------------	-----------------	------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

5809319



(Use as many sheets as necessary)

Sheet	1	of	1
-------	---	----	---

Complete if Known

Application Number	1,774,276
Filing Date	02-064-04
First Named Inventor	David W. Farchmin
Art Unit	
Examiner Name	
Attorney Docket Number	110003.00025

[illegible][illegible]

**Examiner
Signature**

/Ramesh Patel/

Date Considered

08/21/2006

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP §01.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

5782413



INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet	1	of	1
-------	---	----	---

Complete if Known

Application Number	10/774,276
Filing Date	02-06-04
First Named Inventor	David W. Farchmin
Art Unit	
Examiner Name	
Attorney Docket Number	110003.00025

U. S. PATENT DOCUMENTS

Duplicate Reference

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	† ²
		Country Code ³ *Number ⁴ *Kind Code ⁵ (if known)				
RP	1	DE 101 42 279	20.03.2003	Asslon, Ewald		
RP	2	DE 38 32 375 A1	29.3.90	Ruhrkohle AG		
RP	3	WO 96/23340	01/08/96	Haworth Inc.		

/Ramesh Patel/

Date Considered

08/21/2006

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.



+

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Complete if Known

Application Number	10/774,276
Filing Date	02-06-04
First Named Inventor	David W. Farchmin
Group Art Unit	
Examiner Name	
Attorney Docket Number	110003.00025

(use as many sheets as necessary)

Sheet 1 of 1

U.S. PATENT DOCUMENTS

[illegible]

FOREIGN PATENT DOCUMENTS

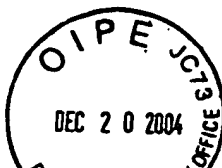
[illegible]

08/21/2006

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U. S. Patent and Trademark Office, Washington, DC 20231. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:** Assistant Commissioner for Patents, Washington, DC 20231.

5706128



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Complete if Known	
		Application Number	10/774,276
		Filing Date	February 6, 2004
		First Named Inventor	David W. Farchmin
		Art Unit	
		Examiner Name	
Sheet 1 of 1	Attorney Docket Number	110003.00025.03AB048	

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
	1	US- 5,598,572	01-28-97	Tanikoshi et al	
	2	US- 5,956,465	09-21-99	Takagi et al	
	3	US- 6,236,335	05-22-01	Goodwin III	
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			

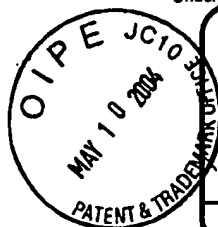
FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	† ⁴
		Country Code ³ Number* Kind Code ⁵ (if known)				
	1	DE 39 32 375 A1	23.9.88	Ruhrkohle AG		
	2	EP 0 992 921 A2	12.04.2000	Lucent Technologies		
	3	WO 02/30053 A1	11.04.2002	Lesswire AG		

Examiner Signature	/Ramesh Patel/	Date Considered	08/21/2006
--------------------	----------------	-----------------	------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

PTO/SB/08A (10-01)
Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Substitute for form 1449A/PTO			Complete if Known		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)			Application Number	10/774,276	
			Filing Date	02-06-2004	
			First Named Inventor	David W. Farchmin	
			Group Art Unit		
			Examiner Name		
Sheet	1	of	4	Attorney Docket Number	110003.00025.03AB 048

U.S. PATENT DOCUMENTS						
Examiner Initials ¹	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
RP	1	5,835,061		Stewart	11-10-98	
	2	6,060,993		Cohen	05-09-00	
	3	5,960,085		de la Huerqa	09-28-99	
	4	4,612,620		Davis, et al.	09-16-86	
	5	6,236,335		Goodwin III	05-22-01	
	6	6,011,487		Plocher	01-04-00	
	7	2001/0024174		Turner	09-27-01	
	8	5,751,221		Stanfield, et al.	05-12-98	
	9	5,627,549		Park	05-06-97	
	10	5,649,300		Snyder et al	07-15-97	
	11	6,362,783		Sugiura et al	03-26-02	
	12	5,287,266		Malec et al	02-15-94	
	13	6,359,711		Cole et al	03-19-02	
	14	6,211,799		Post et al	Apr. 3, 2001	
	15	6,282,455		Engdahl	Aug. 28, 2001	
	16	6,446,004		Cao et al	Sep. 3, 2002	
	17	20020125886		Bates et al	Sep. 12, 2002	
	18	5,544,321		Theimer et al	Aug. 6, 1996	
	19	2003/0011467		Suomela	Jan. 16, 2003	

FOREIGN PATENT DOCUMENTS							
Examiner Initials ¹	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Office ³	Number ⁴	Kind Code ⁵ (if known)			
RP	1		0 992 921 A2		Lucent Technologies Inc	12.04.2000	
	2		WO 00/50919		Micosoft Corporation	31.08.2000	
	3		WO 02/054813 A1		EKA-Hau Oy	11.07.2002	
	4		WO 02/43428 A1		Tele-Com Italia Lab s.p.	30.05.2002	
	5		WO 01/16607 A2		Cordless Antistatic Resi	08.03.2001	
	6		WO 02/12992 A2		IBM United Kingdom Lir	14.02.2002	
	7		GB 2 365 662		International Business M	20.02.2002	
	8		WO 02/056274 A1		Digital Angel Corporatio	18.07.2002	
	9		WO 00/17737		Kemink et al	30.03.00	
	10		WO 01/82032 A2		Baker, Richard A.	01.11.2001	

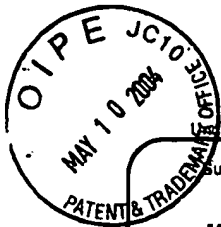
Examiner Signature	/Ramesh Patel/	Date Considered	08/21/2006
--------------------	----------------	-----------------	------------

¹EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U. S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

5522222



U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT


(Use as many sheets as necessary)

Sheet 2 of 4

Complete if Known

Application Number	10/774,276
Filing Date	02-06-2004
First Named Inventor	David W. Farchmin
Art Unit	
Examiner Name	
Attorney Docket Number	110003.00025.03AB048

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
RP	20	US- 6.167.464	12-26-00	Kretschmann	
	21	US- 5.907.491	05-25-99	Canada et al	
	22	US- 2002/0030094 A1	03-14-02	Curry et al	
	23	US- 2002/0167417 A1	11-14-02	Wells, II et al	
	24	US- 2002/0058499 A1	05-16-02	Ortiz	
	25	US- 5.202.929	04-13-93	Lemelson	
	26	US- 5.548.660	08-20-96	Lemelson	
	27	US- 2001/0018349	08-30-01	Kinnunen et al	
	28	US- 5.485.634	01-16-96	Weiser et al	
	29	US- 5.910.799	06-08-99	Carpenter et al	
	30	US- 5.552.806	09-03-96	Lenchik	
	31	US- 2002/0161633 A1	10-31-02	Jacob et al	
	32	US- 5.555.376	09-10-96	Theimer et al	
	33	US- 5.642.303	06-24-97	Small et al	
	34	US- 2002/0007407 A1	01-17-02	Klein	
	35	US- 6.496.775 B2	12-17-02	McDonald Jr et al	
	36	US- 6.611.755 B1	08-26-03	Coffee et al	
	37	US- 4.598.275	07-01-86	Ross et al	
	38	US- 2002/0123325 A1	09-05-02	Cooper	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
		Country Code ³ *Number ⁴ *Kind Code ⁵ (if known)				
RP	11	WO 02/05107 A1	17.01.2002	Swales, Andrew		
	12	EP 0 801 342 B1	08.01.2003	Carpenter, et al		
	13	EP 0 626 635 A2	30.11.94	Palrang et al		
	14	WO 02/13557 A1	14.02.2002	Keller, et al		
	15	WO 01/41546 A2	14.06.2001	Brumitt et al		

Examiner Signature	/Ramesh Patel/	Date Considered	08/21/2006
--------------------	----------------	-----------------	------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Substitute for form 1449A/PTO

(use as many sheets as necessary)

Sheet

3

of

4

Application Number

10774,276

Filing Date

February 6, 2004

First Named Inventor

David W. Farchmin

Group Art Unit

Examiner Name

Attorney Docket Number

110003.00025.03AB048

Examiner Initials ¹	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
RP	39	4,728,959		Maloney et al	Mar. 1, 1988	
	40	5,119,104		Heller	Jun. 2, 1992	
	41	6,026,304		Hilsenrath et al	Feb. 15, 2000	
	42	20010003443		Velazquez et al	Jun. 14, 2001	
	43	6,252,867		Pfeil et al	Jun. 26, 2001	
	44	20010021182		Wakutsu	Sep. 13, 2001	
	45	6,347,229		Zelmanovich et al	Feb. 12, 2002	
	46	20020051430		Kasami et al	May 2, 2002	
	47	6,407,719		Ohira et al	Jun. 18, 2002	
	48	5,991,284		Willenegger et al	Nov. 23, 1999	
	49	20020102995		Zelmanovich et al	Aug. 1, 2002	
	50	20020118655		Harrington et al	Aug. 29, 2002	
	51	6,437,740		De Champlain et al	Aug. 20, 2002	
	52	5,642,353		Roy, III et al	Jun. 24, 1997	
	53	4,700,197		Milne	Oct. 13, 1987	
RP	54	6,381,502		Rudder et al	04-30-02	

[illegible]

**Examiner
Signature**

/Ramesh Patel/

Date Considered

08/21/2006

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U. S. Patent and Trademark Office, Washington, DC 20231. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.**

Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>		Complete if Known	
		Application Number	10/774,276
		Filing Date	02-06-2004
		First Named Inventor	David W. Farchmin
		Group Art Unit	
		Examiner Name	
Sheet	4 of 4	Attorney Docket Number	110003.00025.03AB 048

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
RP	1	A Statistical Modeling Approach to Location Estimation; IEEE Transactions on Mobile Computing; Vol. 1, No. 1, Jan-Mar 2002; pg. 59-69; Roos, et al	
RP	2	A Probabilistic Approach to WLAN User Location Estimation; International Journal of Wireless Information Networks, Vol. 9, No. 3, pg. 155-164; Roos, et al.	
RP	3	A Statistical Modeling Approach To Location Estimation; Master's Thesis, Univ. of Helsinki, Department of Computer Science, May 5, 2001, Teemu Tonteri	
RP	4	An Indoors Wireless Positioning System Based On Wireless Local Area Network Infrastructure (13 pgs), SatNav 2003, Melbourne, Australia 7/22-25/03, Wang et al	

Examiner Signature	/Ramesh Patel/	Date Considered	08/21/2006
-----------------------	----------------	--------------------	------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U. S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.